

MLG12-100E (12V96AH C10 @25°C)

Features

- § Maintenance-free operation
- § Gel technology
- § ABS case, Flame Retardant V0 is available

- § Stable quality and high reliability
- § 12 years design life (at 25°C)



Application

- § Telecommunication system
- § Alarm and security system
- § Backup power

- § Solar & Wind
- § Emergency lighting
- § Auto control system

- § Electronic apparatus and equipment
- § Communication power supply
- § DC power supply

Specification

Nominal Voltage	12V (6 cells)	Operating Temp.Range	Discharge: -15-50°C (5-122°F)
Nominal Capacity	100AH (20hr, 1.80V/cell, 25°C/77°F)		Charge:0-40°C (32-104°F)
	96AH (10hr, 1.80V/cell, 25°C/77°F)	Nominal Operating Temp.Range	Storage: -15-40°C (5-104°F)
	82AH (5hr, 1.75V/cell, 25°C/77°F)		25 ± 3°C (77 ± 5°F)
	58AH (1hr, 1.60V/cell, 25°C/77°F)	Cycle Use	14.4~14.8V (25°C/77°F) Temp.Coefficient -30mV/°C
Dimension	Length 329 ± 2mm	Standby Use	Initial Charging Current Less than 28A
	Width 172 ± 2mm		13.5~13.8V (25°C/77°F) Temp.Coefficient -20mV/°C
	Container Height 214 ± 2mm		No limit on Initial Charging Current
	Total Height(with Terminal) 220 ± 2mm	Capacity affected by Temperature	40°C (104°F) 103%
Approx Weight	Approx 28.5Kg		25°C (77°F) 100%
Terminal	T5 or F7		0°C (32°F) 86%
Container Material	ABS	Self Discharge	ML series batteries may be stored for up to 6 months
Max. Discharge Current	1000A (5S)		at 25°C (77°F) and then a freshening charge is required.
Internal Resistance	Approx 5.2mΩ		For higher temperatures the time interval will be shorter.

Constant Current Discharge (Amperes at 25°C/77°F)

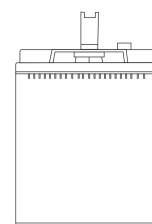
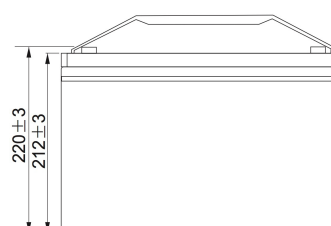
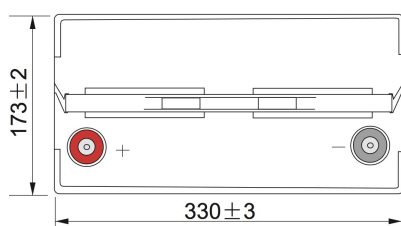
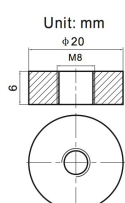
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	228.1	165.5	135.0	87.8	65.7	54.0	31.9	23.9	16.4	9.7	5.16
1.75V/cell	256.7	181.8	146.4	91.4	68.2	55.8	32.8	24.5	16.8	9.9	5.25
1.70V/cell	277.6	194.2	158.1	94.4	70.4	57.4	33.7	25.1	17.1	10.1	5.30
1.65V/cell	299.2	207.1	167.1	98.6	73.3	59.6	34.7	25.8	17.5	10.2	5.38
1.60V/cell	319.9	221.3	174.7	100.9	76.0	61.6	35.6	26.2	17.8	10.3	5.43

Constant Power Discharge (Watts per cell at 25°C/77°F)

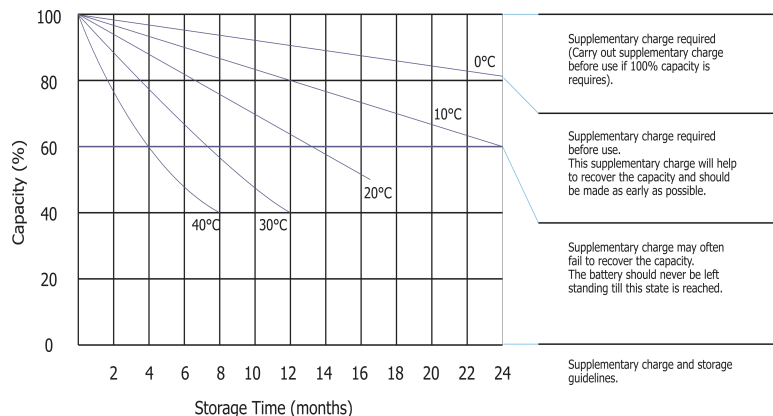
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	422.7	309.4	261.3	166.9	126.1	106.3	62.0	46.9	32.8	19.4	10.38
1.75V/cell	465.9	331.7	274.4	172.6	131.4	108.7	63.7	47.9	33.4	19.6	10.47
1.70V/cell	485.7	349.1	288.7	178.3	135.6	110.2	65.2	48.9	33.8	19.8	10.56
1.65V/cell	508.5	365.3	299.2	186.0	139.5	113.9	66.6	49.8	34.0	20.0	10.69
1.60V/cell	530.4	380.2	312.5	192.3	143.2	117.4	67.9	50.7	34.5	20.1	10.80

Note: The above characteristics data are average values obtained within three charge/discharge cycles, not the minimum values.

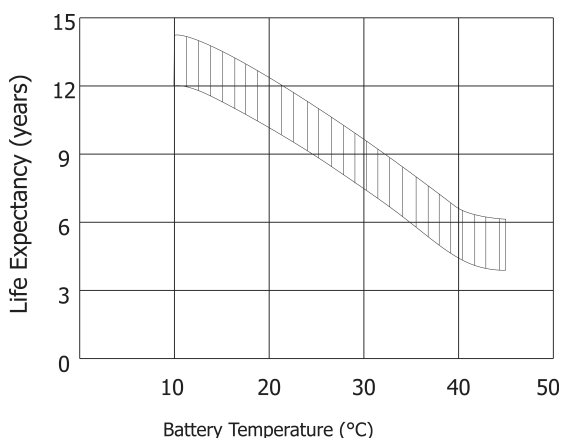
Dimension



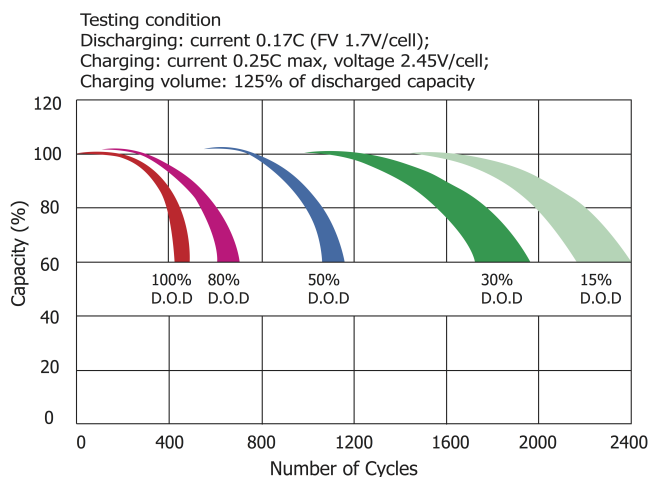
Storage Characteristics



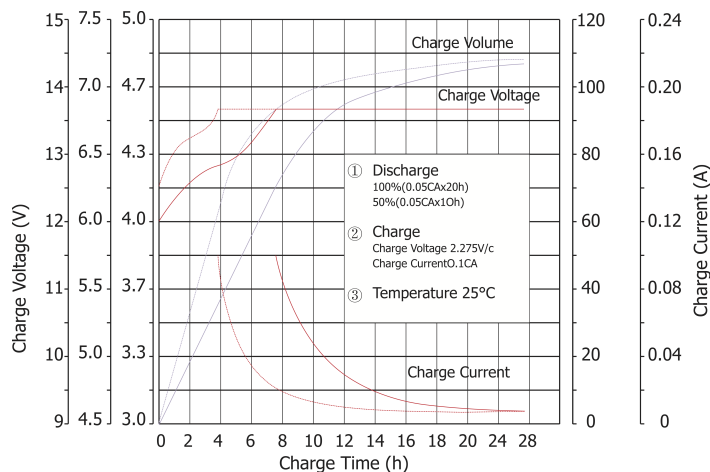
Effect Of Temperature On Float Life



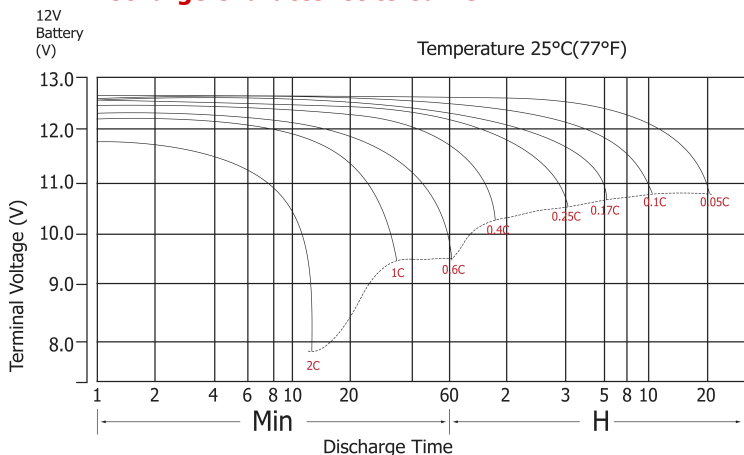
Cycle Life With Depth Of Discharge (D.O.D.)



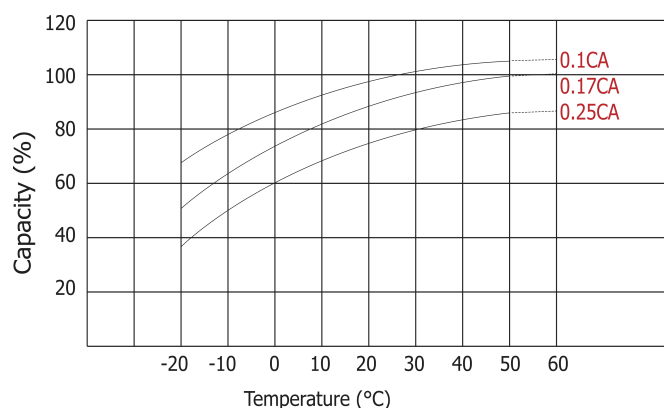
Charge Characteristics Curve For Standby Use



Discharge Characteristics Curve



Temperature Effects With Capacity



Certificates

